Quick Start Guide

Cisco Small Business

Unmanaged Desktop Switch

Contents

- Cisco SF 100D-05, SF 100D-08, SF 100D-16, or SG 100D-08 Unmanaged Desktop Switch
- Wallmount Kit
- Power Adapter

Welcome

Thank you for choosing the Cisco SF 100D-05, SF 100D-08, SF 100D-16, or SG 100D-08 Unmanaged Desktop Switch, a Cisco Small Business network communications device.

Green Energy—Efficient Technology

The Cisco SG 100D-08 switch supports Green Energy-efficient Technology. It can enter sleep mode, turn off unused ports, and adjust power as needed. This increases energy efficiency to help businesses use less power and save money.

Traffic Prioritization

Traffic Prioritization delivers Quality of Service (QoS); all received packets are examined for QoS priority encoding. The switch reads the priority level and forwards the packet based on that priority level. For example, during heavy loads voice and video traffic are given priority over data traffic. The switch is configured to comply with 802.1p tagged frames. This ensures that time-sensitive traffic gets the highest level of service.

To prioritize voice or video traffic by using the QoS feature on the unmanaged desktop switch, set flow control to `off` in the configurations of the connected devices. Otherwise, flow control might send a pause frame to the switch, blocking the high-priority QoS packets queued on the port. On some devices, such as some IP phones and IP cameras, flow control might not be configurable.

Jumbo Frame Support

The Cisco SG 100D-08 switch supports frames up to 9,000 bytes called *jumbo frames*. Jumbo Frame support improves network throughput and reduces CPU utilization during large file transfers, such as multimedia files, by allowing larger payloads in each packet.

1 Mounting the Cisco Unmanaged Desktop Switch

The unmanaged desktop switch can be placed on a flat surface or mounted on a wall. Do not deploy the device in a location where any of the following conditions exist:

High Ambient Temperature—The ambient temperature must not exceed 104 degrees Fahrenheit (40 degrees Centigrade).

Reduced Air Flow—Both side panels must be unobstructed to prevent overheating.

Mechanical Overloading—The device should be level, stable, and secure to avoid it sliding or shifting out of position.

Circuit Overloading—Adding the device to the power outlet must not overload that circuit.

Wall Mounting

If you plan to mount this switch to a wall, you need 2 wallboard screws to mount the unmanaged desktop switch to the wall. We recommend using screws with a minimum of 0.17 inches (4.3 mm) width at the head and at least 0.55 inches (14.0 mm) long. Depending on your mounting surface, you might require longer screws or drywall anchors with a minimum of 0.30 inches (7.6 mm) width at the head and at least 0.59 inches (15.0 mm) long.

WARNING Cisco is not responsible for damages incurred by insecure wall-mounting.

To mount the unmanaged desktop switch to the wall:

STEP 1 Determine where you want to mount the unmanaged desktop switch. Verify that the surface is smooth, flat, dry, and sturdy.

STEP 2 Drill two pilot holes into the wall surface. The distance between the screws should be:

- Cisco SF 100D-05 = 1.70 in (43.0 mm)
- Cisco SF 100D-08, Cisco SF 100D-16, and Cisco SG 100D-08 = 2.58 in (63.5 mm)

The wall-mount slots are two crisscross slots on the bottom panel of the unmanaged desktop switch.

STEP 3 Insert a screw into each hole, leaving a gap between the surface and the base of the screw head of at least 0.1 inches (3 mm).

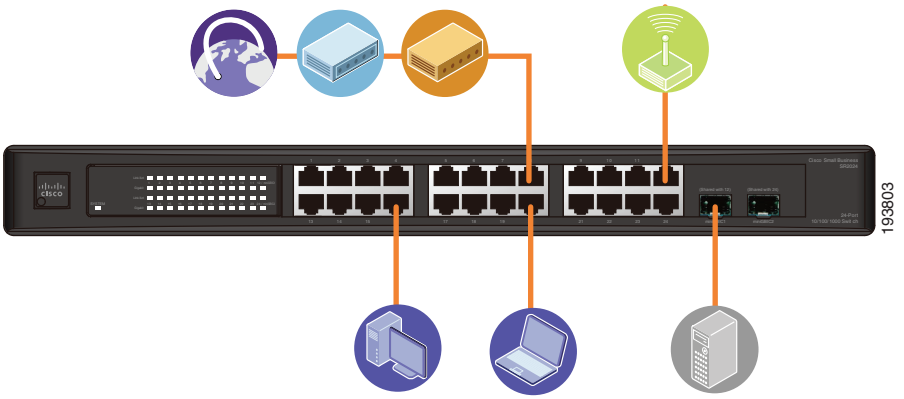
STEP 4 Place the unmanaged desktop switch wall-mount slots over the screws and slide the unmanaged desktop switch down until the screws fit snugly into the wall-mount slots.

STEP 5 Connect the unmanaged desktop switch to the other devices by following the instructions in **Connecting Network Devices**.

For additional information, see **Where to Go From Here**.

2 Connecting Network Devices

The diagram is an example of a typical network configuration.



To connect network devices (such as gateways or other switches) to your unmanaged desktop switch you need one suitable Twisted Pair (TP) cable for each unit. We recommend Category 5 or better cable for Gigabit connections.

NOTE If the uplink from one unmanaged, cascaded switch to another is moved from one port to another port, it can take 30 to 60 seconds for full network operation to resume. This is normal and expected behavior.

To connect the unmanaged desktop switch to a network device, such as a printer or workstation:

STEP 1 Connect the Ethernet cable (Cat5 or better recommended) to the Ethernet port of a computer, printer, network storage, or other network device.

STEP 2 Connect the other end of the network Ethernet cable to one of the numbered unmanaged desktop switch Ethernet ports.

The LED of the port lights if the device connected is active.

STEP 3 Repeat **Step 1** and **Step 2** for each device you want to connect to the unmanaged desktop switch.

STEP 4 Connect the power adapter to the switch and to a power source, and move the power switch to the on position.

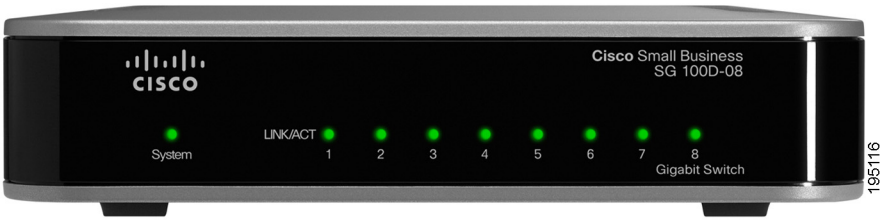
CAUTION Make sure you use the power adapter included with the switch. Using a different power adapter might damage the switch.

3 Features of the Cisco Unmanaged Desktop Switch

This section describes the features of the unmanaged desktop switch.

LEDs

The LEDs are located on the front panel of the switch.



System LED—(Green) This LED lights up and remains lit when the switch is powered on. When the LED is off, nothing is cabled to the port. Or there is a device connected to the port, but there is a problem with the cable or the connected device.

LINK/ACT LEDs—(Green) Each LED lights up when a connection is made through its corresponding port. The LED flashes when the corresponding port is active. When the LED is off, nothing is cabled to the port. Or there is a device connected to the port, but there is a problem with the cable or the connected device.

Ports, Lock, and Power Switch

This section describes the ports, lock, and power switch on the unmanaged desktop switches.

Ethernet Port—The unmanaged desktop switch is equipped with auto-sensing, Ethernet (802.3), RJ-45 ports used for wired network communications.

Power Port—attachment point for the power adapter.

Kensington Lock—a security slot where you can attach a Kensington lock to protect the switch from theft.

Power Switch—cycles the unmanaged desktop switch on or off.

4 Where to Go From Here

Support	
Cisco Small Business Community	www.cisco.com/smb
Cisco Small Business Support Community	www.cisco.com/go/smallbizsupport
Online Technical Support and Documentation (Login Required)	www.cisco.com/support
Phone Support Contacts	www.cisco.com/en/US/support/tsd_cisco_small_business_support_center_contacts.html
Product Documentation	
Cisco SF 100D-05, SF 100D-08, SF 100D-16, or SG 100D-08 Unmanaged Desktop Switch Quick Start Guide	www.cisco.com/en/US/docs/switches/lan/csbus/sf10x-xx_sg10x-xx/desktop/quick_start/78-19254-01.pdf
Regulatory Compliance and Safety Information	www.cisco.com/en/US/products/ps10007/tsd_products_support_series_home.html
Warranty Information	www.cisco.com/go/warranty
Cisco Small Business	
Cisco Partner Central for Small Business (Partner Login Required)	www.cisco.com/web/partners/sell/smb
Cisco Small Business Home	www.cisco.com/smb
Marketplace	www.cisco.com/go/marketplace

Americas Headquarters
Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
http://www.cisco.com

Cisco, Cisco Systems, the Cisco logo, and the Cisco Systems logo are registered trademarks or trademarks of Cisco Systems, Inc. and/or its affiliates in the United States and certain other countries. All other trademarks mentioned in this document or Website are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (0705R)

© 2009 Cisco Systems, Inc. All rights reserved.

78-19254-01